





UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/888,048	06/22/2001	Yukihisa Takeuchi	791_151	6969		
25191 7	590 07/03/2002					
BURR & BROWN			EXAMINER			
PO BOX 7068 SYRACUSE, NY 13261-7068			BUDD, MARK OSBORNE			
			ART UNIT	PAPER NUMBER		
			2834			
			DATE MAILED: 07/03/2002			

Please find below and/or attached an Office communication concerning this application or proceeding.

<i>€</i>	Application		plicant(s)	2/	
Office Action Summary	\$880°	18	ak euch		
	Examiner M.	Budd		Art Unit	
-The MAILING DATE of this communication appea	ars on the cover	sheet beneat	th the correspo	ndence address	_
Period for Reply		2			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET OF THIS COMMUNICATION.	TO EXPIRE	M	ONTH(S) FROM	M THE MAILING	DATE
 Extensions of time may be available under the provisions of 37 CF from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, If NO period for reply is specified above, such period shall, by define a failure to reply within the set or extended period for reply will, by a company received by the Office later than three months after the interm adjustment. See 37 CFR 1.704(b). 	a reply within the sta fault, expire SIX (6) M statute, cause the ap	atutory minimum IONTHS from the	of thirty (30) days mailing date of th	will be considered tin is communication.	nely.
Status 6-10	-07				
☐ Responsive to communication(s) filed on				:-	·
☐ This action is FINAL.					
Since this application is in condition for allowance exce accordance with the practice under Ex parte Quayle, 19	∍pt for formal mat 935 C.D. 1 1; 453	ters, prosecu l O.G. 213.	tion as to the r	nerits is closed i	n :
Disposition of Claims	1 12 14				
Claim(s)	2 12-14		is/are pending	in the application	l .
Of the above claim(s) Claim(s) -/O ava Claim(s) /2 and /3	3		is/are withdrav	n from considera	tion.
□ Claim(s)					
(X Claim(s) /-10 and 14			is/are rejected.		
☐ Claim(s)					
☐ Claim(s)			are subject to i	restriction or elect	tion
Application Papers			requirement		
☐ The proposed drawing correction, filed on	= -	•	sapproved.		
☐ The drawing(s) filed on is/are objection	ected to by the E	kaminer			
☐ The specification is objected to by the Examiner.					
$\hfill\Box$ The oath or declaration is objected to by the Examiner.					
riority under 35 U.S.C. § 119 (a)–(d)					
☐ Acknowledgement is made of a claim for foreign priority	y under 35 U.S.C.	§ 119 (a)-(d).			
☐ All ☐ Some* ☐ None of the:					
$\hfill \Box$ Certified copies of the priority documents have been					
□ Certified copies of the priority documents have been				·	
☐ Copies of the certified copies of the priority docume					
in this national stage application from the Internation	· · · · · · · · · · · · · · · · · · ·	` "			
*Certified copies not received:			-	•	
ttachment(s)					
☐ Information Disclosure Statement(s), PTO-1449, Paper N	No(s)	☐ Intervie	w Summary, PT	O-413	
Notice of Reference(s) Cited, PTO-892		□ Notice	of Informal Pate	ent Application, PT	ГО-15
☐ Notice of Draftsperson's Patent Drawing Review, PTO-9	148	□ Other _			
Office A	Action Summary	<i>,</i>			
			<u> </u>		
Patent and Trademark Office					0

Serial Number: 09/888,048

Art Unit: 2834

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claims 1, 2 and 14 are rejected under 35 U.S.C. 102(a) as being anticipated by Nakazawa, Ushioda, Shigemura or Hiraishi.

Each reference teaches a comb-like structure with piezoelectric teeth being driven by fields parallel to the poling direction and ejecting liquid from a space formed between two adjacent piezo elements.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 3-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hirashi, Shigemura or Ushioda.

Each reference teaches the claimed structure except for various specific dimensions.

However, it has long been held that optimizing a known device via selection of specific dimensions or parameters (e.g. thru routine experimentation) is within the skill expected of the

Serial Number: 09/888,048

Art Unit: 2834

Page 3

routineer. Therefore determination of specific optimum dimensions for any specific application of Ushioda, Hiraishi or Shigemura would have been obvious to one of ordinary skill in the art.

Further cited of interest are Oikawa, Bowen (050), and Bowen (818).

Applicants general traversal of the restriction requirement is noted. However, applicant has not pointed out any specific error in the holding. Further, non coincident search areas are involved, thus there is a burden on the PTO. Consequently the requirement is hereby repeated and made final.

Budd/ds

07/01/02

MARK O. BUDD FRIMARY EXAMINER

ART UNIT 217